

FIG.1

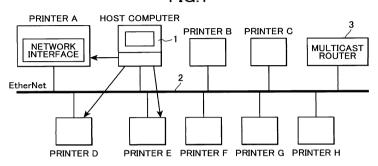


FIG.2

HOST COMPUTER	PRINTERS
BROADCAST OF SEARCH CONDITIONS	
IP, NAME, LOCATION, 10ppm	PRINTER A
IP, NAME, LOCATION, 10ppm	PRINTER B
IP, NAME, LOCATION, 10ppm	PRINTER C
IP, NAME, LOCATION, 10ppm	PRINTER D
IP, NAME, LOCATION, 20ppm	PRINTER E
	PRINTER F
	PRINTER G
	PRINTER H





FIG.3(a)

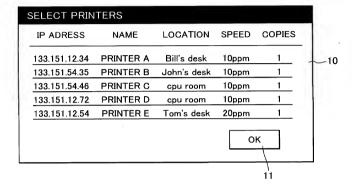


FIG.3(b)

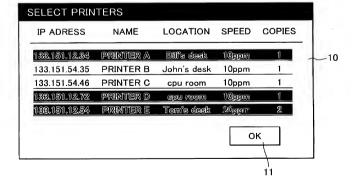




FIG.4

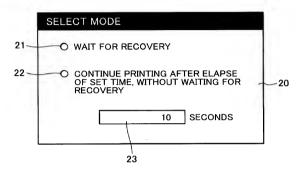
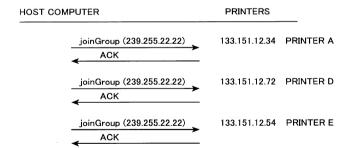


FIG.5



	HOST COMPUTER	PRINTERS	
=: 0 o()	PRINT DATA seq=1	239.255.22.22	
FIG.6(a)	seq=1 ACK	133.151.12.34	PRINTER A
	seq=1 ACK	133.151.12.72	PRINTER D
	seq=1 ACK	133.151.12.54	PRINTER E
	•		
	HOST COMPUTER	PRINTERS	
=== = </td <td>PRINT DATA seq=2</td> <td>239.255.22.22</td> <td></td>	PRINT DATA seq=2	239.255.22.22	
FIG.6(b)	seq=2 ACK	133.151.12.34	PRINTER A
	seq=2 ACK	133.151.12.72	PRINTER D
	seq=2 RESEND	133.151.12.54	PRINTER E
	•		
	HOST COMPUTER	PRINTERS	
510 0()	PRINT DATA seq=2	239.255.22.22	
FIG.6(c)		133.151.12.34	PRINTER A
		133.151.12.72	PRINTER D
	✓ seq=2 ACK	133.151.12.54	PRINTER E
	HOST COMPUTER	PRINTERS	
	PRINT DATA seq=3	239.255.22.22	
FIG.6(d)			
	≼ seq=3 ACK	133.151.12.72	PRINTER D
	✓ seq=3 ACK	133.151.12.54	PRINTER E
	HOST COMPUTER	PRINTERS	
	5 SECONDS ELAPSED		
FIG.6(e)	PRINT DATA seq=3	239.255.22.22	
. 14.0(0)	seq=3 ACK	133.151.12.34	PRINTER A
		133.151.12.72	PRINTER D
		133.151.12.54	PRINTER E

	HOST COMPUTER	PRINTERS	
FIG.7(a)	PRINT DATA seq=4	239.255.22.22	
114.7(4)	seq=4 ACK	133.151.12.72 133.151.12.54	PRINTER D PRINTER E
	HOST COMPUTER	PRINTERS	
FIG.7(b)	5 SECONDS ELAPSED PRINT DATA seq=4	239.255.22.22	
		133.151.12.72 133.151.12.54	PRINTER D PRINTER E
	HOST COMPUTER	PRINTERS	
FIG.7(c)	10 SECONDS ELAPSED PRINT DATA seq=5	239.255.22.22	
	seq=5 ACK	133.151.12.72 133.151.12.54	PRINTER D PRINTER E
	HOST COMPUTER	PRINTERS	
	LEAVE GROUP (239.255.22.22) OK	133.151.12.34	PRINTER A
FIG.7(d)	LEAVE GROUP (239.255.22.22) OK	133.151.12.72	PRINTER D
	LEAVE GROUP (239.255.22.22) OK	133.151.12.54	PRINTER E



FIG.8

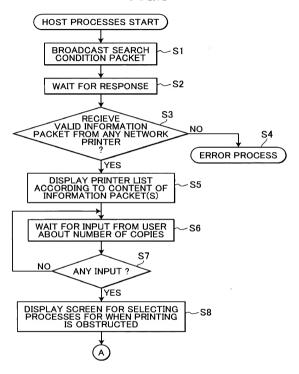




FIG.9

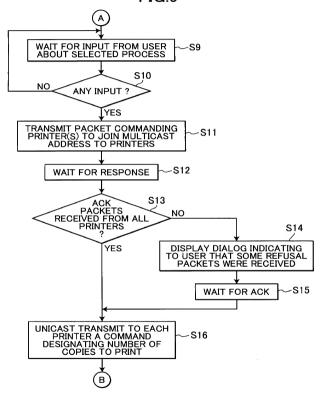
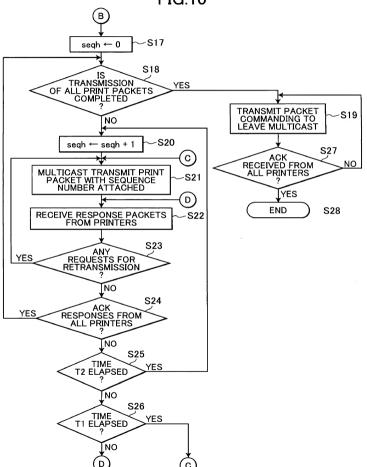
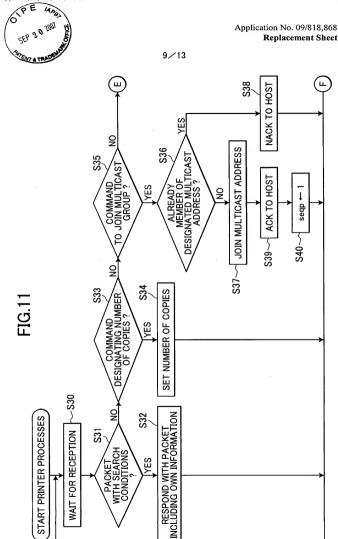




FIG.10







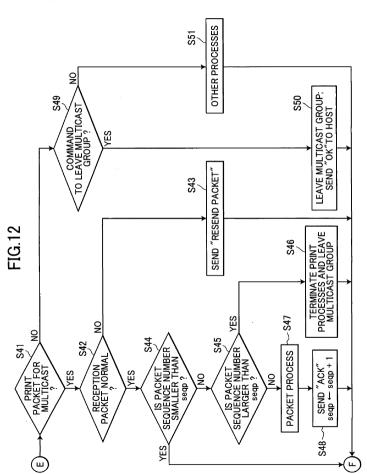


FIG.13

JOB PRINT INFORMATION MANAGEMENT BLOCK

NUMBER OF RETRANSMISSIONS	3
NOMBER OF RETRANSMISSIONS	

FIRST RETRANSMISSION TIME	3HRS 30MIN
SECOND RETRANSMISSION TIME	4HRS 00MIN
THIRD RETRANSMISSION TIME	24HRS 00MIN

FIG.14(a)

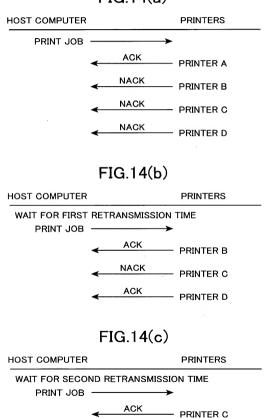




FIG.15(a)

	1 1G.15(a)	
HOST COMPUTER	PRINTERS	
DDWT 10D	> DDMTED A	
PRINT JOB	→ PRINTER A	
←	ACK	
PRINT JOB	PRINTER B	
←	NACK	
PRINT JOB	→ PRINTER C	
←	NACK	
PRINT JOB	PRINTER D	
←	NACK	
	FIG.15(b)	
HOST COMPUTER	PRINTERS	
WAIT FOR FIRST RETRANSMISSION TIME		
PRINT JOB	PRINTER B	
←	———— ACK	
PRINT JOB	PRINTER C	
←	NACK	
PRINT JOB	PRINTER D	
←	ACK	
FIG.15(c)		
HOST COMPUTER	PRINTERS	
WAIT FOR SECOND RETRANSMISSION TIME		
PRINT JOB	→ PRINTER C	
←	ACK	